

MIKHALENOK, Ye.I., kand.tekhn.nauk; Prinimal uchastiye: ISAYEV, A.I.,
doktor tekhn.nauk, prof.

Calculating allowances and determining the economic efficiency of
their reduction in large forgings and castings. [Trudy] TSNITMASH
102:91-118 '61. (MIRA 14:10)

(Tolerance (Engineering))

ISAYEV, Aleksy Il'ich, doktor tekhn. nauk; KOYRE, Viktor Yevseyevich, kand. tekhn. nauk; ZUBKOVSKAYA, Zinaida Nazarovna, kand. tekhn. nauk; DRAYGOR, D.A., doktor tekhn. nauk, retsentsent; LESOVAYA, Ye.Ye., red.isd-va; MATUSEVICH, S.M., tekhn. red.

[Finish machining of surfaces of large parts] Chistovaia obrabotka ploshchestei krupnogabaritnykh detalei. Kiev, Gostekhizdat, 1962. 117 p. (Metal cutting) (MIRA 16:5)

S/121/62/000/006/006/011
D040/D113

AUTHORS: Isayev, A.I., and Anokhin, V.S.

TITLE: Reaming with the aid of ultrasonic tool vibration

PERIODICAL: Stanki i instrument³³, no. 6, 1962, 22-24

TEXT: Experiments in reaming with a reamer connected to an ultrasonic vibrating system were conducted with 2 different steel grades, and the obtained bore surface finish was class 8 per ГОСТ 2789-59 (GO3T 2789-59) standard, or 3 classes higher than in normal reaming. The experimental reamer, shown in a photograph, was used on a lathe, 18 mm in diam. and with a 20 mm long work portion (5 mm cutting length, 8 mm gaging portion, and 7 mm back taper). The latter is joined to the ultrasonic system by a concentrator, which is brazed to a magnetostrictive vibrator and contains multiple spiral grooves which transform longitudinal oscillations of the concentrator into circular oscillations of the reamer. Reaming was conducted with a 5% cutting emulsion and a circular oscillation amplitude of 15 μ and higher. Good finish could only be obtained

Card 1/2

Reaming with the aid of ultrasonic tool

S/121/62/000/006/006/011
D040/D113

with left-hand reamer flutes together with right-hand rotation of the machine spindle. The use of ultrasound reduced the reaming time up to 4.2 times, and built-up nose was absent on the cutting edges. Class 8 finish was obtained even in viscous steel 20. The observed effect of different cutting velocity and feed rates is shown graphically. There are 6 figures. ✓

Card 2/2

S/122/62/000/008/004/004
D262/D308

AUTHORS:

Isayev, A.I., Doctor of Technical Sciences,
Professor, and Anokhin, V.S., Engineer

TITLE:

The effect of ultrasonic vibration on tool
durability in metal cutting

PERIODICAL:

Vestnik mashinostroyeniya, ⁴²no. 8, 1962,
60 - 63

TEXT:

The article describes a series of experiments conducted when the vibrations are (a) in the direction of the cutting speed, and (b) perpendicular to the worked surface lubricated by transformer oil. The results of the experiments are recorded in form of graphs and analyzed. They show that in case (a) amplitudes of order $2A = 10 - 15 \text{ mk}$ are admissible; in case (b) the best results are obtained at amplitudes $4 - 5 \text{ mk}$, at which the tool stability is almost three times greater than without oscillations; the stability drops very sharply at higher amplitudes.

Card 1/2

L 9056-65

ENT(d)/ENT(1)/ENG(k)/ENT(n)/FA/ENG(v)/T-2

P2-6/Pe-5 AEDC(b)/AFETR

ACCESSION NR: AR4031828

SOURCE: Referativnyy zhurnal. Dvigateli vnutrennego sgoraniya. Otdel'nyy
vypusk, Abs. 1.39.297

8/0273/61/000/001/0036/0036

AUTHOR: Isayev, A. I.; Okulov, V. G.

TITLE: Programming a three-address electronic computer for calculating the fuel
feed process

CITED SOURCE: Tr. Permsk. s.-kh. in-t, v. 18, no. 5, 1962, 35-62

TOPIC TAGS: engine, fuel feed, fuel feed calculation, fuel feed calculation
method, internal combustion engine

TRANSLATION: The method worked out by Professor Astakhov for calculating fuel
feed gives high accuracy, but requires a great deal of time for computation.
Therefore, calculation by this method is carried out on a digital electronic com-
puter. Considerations are given on selection of the method and the step for num-
erical integration of the differential equations which describe the state of the

Card 1/2

L 9056-05

ACCESSION NR: AR4031828

system. It is pointed out that one version of the calculation requires no more than 5-8 minutes. Yu. Grudskiy.

SUB CODE: DP, PP

ENCL: 00

Card 2/2

ISAYEV, A.I., doktor tekhn. nauk

Improving the quality of machines by technological methods. Mashino-
stroitel' no.6:2-4 Je '65. (MIRA 18:7)

ACC NR: AR7000940

SOURCE CODE: UR/0273/66/000/010/0034/0034

AUTHOR: Isayev, A. I.; Russkikh, F. P.

TITLE: Role of the elements of a fuel pump in the organization of the process of fuel supply

SOURCE: Ref. zh. Dvigateli vnutrennego sgoraniya, Abs. 10.39.250

REF SOURCE: Tr. Permsk. s.-kh. in-t, no. 34, 1966, 3-16

TOPIC TAGS: engine fuel pump, internal combustion engine, fuel pump, fuel supply, internal combustion

ABSTRACT: An account is given of studies conducted to determine the effects of the basic elements of a fuel pump on the process of fuel supply. The study was conducted by computing the supply of fuel on a digital computer. The object of the study was a fuel unit consisting of a nozzle pump an FSh 1.5 x 15 4TH 8.5 x 10, and a connecting high-pressure manifold with a 2-mm internal diameter. [Translation of abstract] [SP]

SUB CODE: 21/

Card 1/1

UDC: 621.43.038.001.5

ACC NR: AR7000941

SOURCE CODE: UR/0273/66/000/010/0036/0036

AUTHOR: Isayev, A. I.; Zakharchenko, V. V.

TITLE: The role of the injector in the organization of the process of fuel feeding

SOURCE: Ref. zh. Dvigateli vnutrennego sgoraniya, Abs. 10.39.265

REF SOURCE: Tr. Permsk. s.-kh. in-t, no. 34, 1966, 17-39

TOPIC TAGS: fuel, ~~digital computer~~, fuel injector, FUEL INJECTION

ABSTRACT: A description is given of a study to determine the influence of the individual elements of an injector on the course of the process of fuel feeding. A peg injector was selected for the investigations, which were carried out mainly by calculation on a "Strela" digital computer. [Translation of abstract]

SUB CODE: 21/

[GC]

Card 1/1

UDC: 621.436.038.8

ACC NR: AP7002608

(A, N)

SOURCE CODE: UR/0413/66/000/023/0117/0117

INVENTOR: Yegorov, A. M.; Isayev, A. I.

ORG: None

TITLE: An electrochemical method for machining components with complex shapes. Class 48, No. 189275 [announced by the Central Scientific Research Institute of Technology and Machine Building (Tsentral'nyy nauchno-issledovatel'skiy institut tekhnologii i mashinostroyeniya)]

SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 23, 1966, 117

TOPIC TAGS: electroerosion machining, metal machining, precision finishing

ABSTRACT: This Author's Certificate introduces an electrochemical method for machining components with complex shapes using movable electrodes based on Author's Certificate No. 142141. Sectional electrodes are used to provide greater accuracy in machining three-dimensional curved surfaces with large angles of twist. These electrodes are brought together in pairs successively or simultaneously at the optimum angles to the corresponding sections of the surface being machined, collectively producing the given profile in the finished component.

SUB CODE: 13/ SUBM DATE: 09Mar64

Card 1/1

UDC: 621.9.047.7

0930

ISAYEV, A.M.

Azimuthal mounting for the NAFA -38/25 camera. Biul.sta.opt.nabl.
isk.sput.Zem. no.25:9-11 '62. (MIRA 15:7)

1. Bakinskaya stantsiya nablyudeniya iskusstvennykh sputnikov Zemli.
(Cameras)

3.2100

AUTHOR:

Isayev, A. M.

S/035/62/000/010/010/128
A001/A101

TITLE:

Improvement of an instrument for observations of satellites

PERIODICAL:

Referativnyy zhurnal, Astronomiya i Geodeziya, no. 10, 1962, 15,
abstract 10A144 ("Byul. st. optich. nablyudeniya iskusstv.
sputnikov Zemli", 1961, no 23, 13 - 15)

TEXT:

The author reports on the manufacture of an instrument for visual observations of Earth artificial satellites with photographic readings of circles and a contact device for recording time instants. The instrument was designed on the basis of a 10" universal instrument adapted, by means of a worm transmission, for continuous tracking of a satellite from 0° to 360° in azimuth and from 0° to 180° in altitude. "Smena-4" cameras are used for photographing circles. The instrument is controlled semi-automatically. ✓B

M. I.

[Abstracter's note: Complete translation]
Card 1/1

S/019/62/000/002/001/08:
A152/A126

AUTHORS: Isayev, A. M., Ostrovskiy, A. P., Shnapir, Ya. I., Rashkov, S. Ye.,
Malyshev, V. Ya., Borisov, B. V.

TITLE: Method of fusion piercing of holes

PERIODICAL: Byulleten' izobreteniy, no. 2, 1962, 10 - 11

TEXT: Class 5a, 1910. No. 244126 (654505/22 of February 12, 1960). A
method of fusion piercing of holes in hard rock, differing from others in that in
order to speed up the thermal boring by producing boosted thermal flows from a
jet of flame from a torch, liquid fuel components are used, consisting of a liq-
uid oxidizer - nitric acid for example - and a liquid fuel. ✓

Card 1/1

RASHKOV, S.Ye.; ISAYEV, A.M.; OSTROVSKIY, A.P.; SHNAPIR, Ya.I.; MALYSHEV, V.Ya.;
BORISOV. B.V.

Method of fire drilling. Gor. zhur. no.7:76 JI '62. (MIRA 15:7)
(Boring machinery)

ISAYEV, A.N.

Sector organization of control methods for the reduction and eradication of acute gastrointestinal diseases. Zhur.mikrobiol.epid. i immun. 30 no.7:126-128 J1 '59. (MIRA 12:11)

1. Iz polikliniki No.12 pri Ob'yedinennoy klinicheskoy bol'nitse No.3 Leningeskogo rayona Baku.

(GASTROINTESTINAL DISEASES - revention and control)

(COMMUNICABLE DISEASES - prevention and control)

L 58343-65 ENT(m)/EPF(c)/EPF(n)-2/ENG(m)/EPR Pr-4/Ps-4/Pu-4 WW
 ACCESSION NR: AT5010451 UR/3136/64/000/723/0001/0008

AUTHORS: Isayev, A. N.; Chernilin, Yu. F.

TITLE: Influence of a moderator temperature on the spatial-
 energy distribution of neutron fluxes

SOURCE: Moscow. Institut atomnoy energii. Doklady, no. 723,
 1964. Vliyaniye temperatury zamedlyayushchey sredy na
 prostranstvenno-energeticheskoye raspredeleniye potokov
 neytronov, 1-8

TOPIC TAGS: reactor neutron flux, neutron distribution, thermal
 neutron, monochromatic neutron beam, reactor moderator, reactor
 reflector, temperature effect

ABSTRACT: The authors estimate the possibility of increasing
 the neutron flux in the energy interval 0.1--0.5 eV by modify-
 ing the neutron energy spectrum and by changing the temperature
 of the reactor reflector. The main purpose of this study is

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ACCESSION NR: AT5010451

to find a way of producing a large flux of monochromatic neutrons for various research purposes. The analysis begins with an estimate of the influence of the variation of the temperature and the energy distribution of neutron fluxes in an infinite moderating medium without absorption of neutrons during the course of moderation. Such a neutron spectrum can be produced in the reactor with sufficiently thick reflector and small absorption cross-section. In the next step it is assumed that the neutron spectrum of the reaction is such that the slowing-down neutrons have a Fermi distribution and the thermal neutrons have a Maxwellian distribution. The transition between the Fermi and the Maxwell spectra occurs in some energy region in which the neutron spectrum differs somewhat from Maxwellian. The results show that when the reflector temperature is increased from 350 to 1700K the flux of the 0.2--0.6 eV neutrons increases 100 times. Corrections are introduced to allow for the neutron distribution in actual

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ACCESSION NR: AT5010451

reactors (type IRT and type SM). The results confirm the appreciable increase in the integral flux of thermal neutrons resulting from the increase in the reflector temperature. Original article has: 4 figures, 9 formulas and 1 table

ASSOCIATION: none

SUBMITTED: 00

ENCL: 00

SUB CODE: NP

NR REF SOV: 004

OTHER: 001

Page 2/2

L 58344-65 EWT(m)/EPF(c)/EPF(n)=2/EAG(m)/EPR Pr-4/PS-4/PU-4 WW

ACCESSION NR: AT5010452

UR/3136/64/000/724/0001/0010

AUTHORS: Isayev, A.N.; Ostapenko, V.V.; Chernilin, Yu. F. ³²⁴ ₃₇

TITLE: Optimal methods for the processing of transient processes

SOURCE: Moscow. Institut atomnoy energii. Doklady, no. 724,
1964. Optimal'nyye metody obrabotki perekhodnykh protsessov, 1-10

TOPIC TAGS: reactor control, reactor transient, optimal control

ABSTRACT: The authors attempt to use the transients occurring in a nuclear reactor to determine its kinetic and physical constants. It is pointed out that earlier methods are based on a solution of elementary kinetic equations for some specified law of reactivity variation. Some of the difficulties involved in earlier methods are pointed out. The method described in the article consists of deriving the coefficients of the system of elementary kinetic equations by applying optimal methods for the reduction of the transient curves. The theory of the method

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ACCESSION NR: AT5010452

is based on the application of variational analysis and probability theory to automatic control, as developed by various authors. It is shown that by constructing a reactor model in analog form it is possible to obtain information on the reactivity state of the reactor, provided the model is part of a feedback control loop based on the difference between the output of the nuclear reactor and its model. The optimization is obtained if extremal parametric control of the model is employed. The coefficients of the system of elementary kinetic equations are thus determined without the need for experimental equipment. The use of high-speed computers, which can search rapidly for a solution of the differential equations satisfying the specified optimality criterion, can provide the solutions of concrete problems in reactor control. Some of the premises discussed in the article are illustrated by concrete examples of calculations performed with an electronic computer. Original article has: 3 figures and 2 formulas

Card

2/3

L 58344-65

ACCESSION NR: AT5010452

ASSOCIATION: none

SUBMITTED: 00

ENCL: 00

SUB CODE: NP, DP

NR REF SOV: 004

OTHER: 002

Card

3/3

ISAYEV, A.N.; BELOSHEYKOV, A.F.

New machine for general track overhauling. Put' 1 put. khoz.
9 no.7:6-8 '65. (MIRA 18:10)

1. Nachal'nik opyt'noy putevoy mashinnoy stantsii No.27,
stantsiya Armavir, Severo-Kavkazskoy dorogi (for Isayev).
2. Glavnyy mekhanik mashiny VPO-3000, stantsiya Armavir,
Severo-Kavkazskoy dorogi (for Belosheykov).

14400-00

ENTRADA/STOR: 11/11/66

ACC NR: AP6003583

SOURCE CODE: UR/0170/66/010/001/0046/0050

AUTHOR: Chernilin, Yu. F.; Ostapenko, V. V.; Isayev, A. N.

ORG: Institute of Atomic Energy im. I. V. Kurchatov, Moscow (Institut atomnoy energii)

TITLE: Certain problems of emergency cooling of the IRT reactor

SOURCE: Inzhenerno-fizicheskiy zhurnal, v. 10, no. 1, 1966, 46-50

TOPIC TAGS: reactor control, nuclear fuel, thermal reactor, nuclear research reactor, nuclear reactor control equipment, cooling rate, nuclear reactor coolant /IRT reactor

ABSTRACT: The thermal operating conditions of the fuel assembly of a thermal research reactor in emergency shutdown of the main circulating pumps are studied. The downward direction of the coolant circulation under normal conditions is assumed. The effect of the safety system trip lag of the fuel assembly on the thermal conditions is estimated. Certain results of electronic and stand modelling are presented. The cross section of the fuel assembly and the schematic drawing of the stand are given. Equations of the safety rod motion (1) and of the water motion in the loop (7) are derived. Orig. art. has: 4 figures and 7 formulas. [Based on author's abstract].

SUB CODE: 18, 09/ SUBM DATE: 20Oct64/ ORIG REF: 008/ OTH REF: 001/

Card

UDC: 621.039.566.8

ISAYEV, Aga Nariman Ogly

Experience of a medical sector in the control of gastrointestinal diseases. Sov.med. 23 no.7:141-142 J1 '59. (MIRA 12:11)

1. Iz polikliniki No.12 pri ob'yedinennoy klinicheskoy bol'nitsy No.3 (glavnyy vrach I.G.Kadymov) Leninskogo rayona Baku.
(GASTROINTESTINAL DISEASES prev. & control)

ISAYEV, A. N.

Cand Med Sci - (diss) "Experience of work on decreasing and liquidating gastro*intestinal ailments in districts." Baku, 1961. 22 pp; (Azerbaydzhan State Med Inst imeni N. Narimancv); 200 copies; free; (KL, 7-61 sup, 259)

ISAYEV, A.N.

Advantages of a maximum loading of machines. Put' 1 put. khoz.
8 no.11&18-19 '64 (MIRA 18:2)

1. Nachal'nik opyt'noy putevoy mashinnoy stantsii No.27,
stantsiya Armavir, Severo-Kavkazskoy dorogi.

ISAYEV, A. N.

Peat Industry

Method of computing errors in estimating peat reserves. Torf. prom., 29, No. 8, 1952.

9. Monthly List of Russian Accessions, Library of Congress, October 1952. Unclassified.

2

PIGHUGIN, Aleksey Vasil'yevich, dotsent; DUNAYEV, Boris Konstantinovich,
inzhener; ISAYEV, Aleksandr Nikolayevich, inzhener; MITSKEVICH,
Konstantin Mikhailovich, inzhener; POSTNIKOV, Aleksandr Pavlovich,
inzhener; IL'INSKIY, L.L., redaktor; SHABLINSKIY, V.V., redaktor;
LARIONOV, G.Ye., tekhnicheskiy redaktor

[Peat beds and prospecting for them] Torfianye mestorozhdeniya i ikh
razvedka. Izd. 2-oe, perer. Moskva, Gos. energ. izd-vo, 1956. 280 p.
(Peat) (MLRA 9:12)

134767 N. N.

В. С. Павлов

Свержение системы и перестройка правого телевидения в рамках системы, но не в телевидении СССР.

В. Е. Калаш

Разработка унифицированного телевидения и системы обработки реального телевидения для телевидения.

Р. В. Вино, С. В. Гурьев

Принципы построения и выполнения с помощью и перестройки системы.

Р. В. Вино, С. В. Гурьев

О системе структуры системы на структуру телевидения реального и реального.

11 июня

(с 10 до 16 часов)

В. А. Боровой

Система телевидения реального.

В. В. Вино

Аннотация телевидения реального для телевидения реального.

70

В. В. Ефремов

Системность системы телевидения с системой телевидения реального, телевидения реального ОНУ и МНУ.

Г. В. Вино

Принципы построения системы телевидения

11 июня

(с 18 до 22 часов)

В. В. Вино

Общая система телевидения с телевидением реального для телевидения реального.

В. В. Вино

В. В. Вино

Принципы построения системы телевидения

В. В. Вино

Видео телевидения реального для телевидения реального и телевидения реального.

В. В. Вино

В. В. Вино

Краткая аннотация телевидения реального для телевидения реального.

Report submitted for the Conference Meeting of the Scientific Technological Society of Radio Engineering and Electrical Communications in A. S. Paper (VSEI), Moscow, 8-12 June, 1959

SAMOYLOV, Georgiy Pavlovich; ISAYEV, A.N., otv.red.; VENGRENYUK, L.I.,
red.; SHERFER, G.I., ~~tekhn.red.~~

[Repairing television sets; aid for owners of television
receivers) Ustraneniye neispravnostei v televizorakh; v pomoshch'
vlastel'tsam televizorov. Moskva, Gos.izd-vo lit-ry po voprosam
svyazi i radio, 1958. 157 p. (MIRA 12:2)
(Television--Repairing)

NOVAKOVSKIY, S.V.; ISAYEV, A.N.

Effect of the image subject on the selection of the luminance
color of the kinescope screen for black-and-white TV and of the
equal signal white for color TV. Tekh.kino i telev. 4 no.9:58-62
S '60. (MIRA 13:9)

1. Nauchno-issledovatel'skiy institut Ministerstva svyazi SSSR.
(Color television)
(Television—Receivers and reception)

ISAYEV, A.N. (g.Armavir)

Competition for a higher labor productivity. Put' i put.khoz. 5
no.12:7 D '61. (MIRA 15:1)

(Railroads--Labor productivity)

ISAYEV, A.N.

Over-all mechanization on a large scale. Put' i put.khoz. 6 no.6:21-23
'62. (MIRA 15:7)

1. Nachal'nik OPMS-27, st. Armavir, Severo-Kavkazskoy dorogi.
(Railroads—Equipment and supplies)
(Railroads—Management)

ISAYEV, A.N.

Lowering the incidence and eliminating the occurrence of intestinal diseases in a district. Zhur.mikrobiol., epid.i immun. 33 no.4:118-119 Ap '62. (MIRA 15:10)

1. Iz Ob'yedinennoy klinicheskoy bol'nitsy No.3 imeni Dzhaparidze poliklinicheskogo otdeleniya No. 12 g. Baku.
(INTESTINES—DISEASES)

IVANOV, L.N., kand. tekhn. nauk, starshiy преподаvatel';
ISAYEV, A.N., aspirant

Increasing the coefficient of the useful time of warping
machines. Tekst. prom. 22 no.7:72-76 J1 '62.

(MIRA 17:1)

1. Kafedra teorii mekhanizmov priborov i mashin Moskovskogo
tekstil'nogo instituta.

ISAYEV, A.N.

Effectiveness of complex measures in the control of intestinal diseases in a medical district. Sovet. med. 26 no.5:100-102 My'63 (MIRA 17:1)

1. Iz Ob'yedinennoy polikliniki No.12 (glavnyy vrach - sa-sluzhennyy vrach D.A. Gadzhiyev), Baku.

BUNIN, O.A.; MOSKVICHEV, N.T.; PLAKSIN, S.A.; Prinimali uchastiye:
GORSHKOV, P.V.; SMIRNOV, V.M.; PAVLOV, V.P.; ISAYEV, A.P.;
LAVROV, G.V.

Operation conditions of the dye aging and reducing
apparatus. Tekst.prom. 22 no.10:64-67 0 '62. (MIRA 15:11)

1. Ivanovskiy nauchno-issledovatel'skiy tekstil'nyy
institut.

(Dyes and dyeing—Apparatus)

ISAYEV, A. P., Cand Tech Sci -- (diss) "Research into pressure basin of the type of divisor of irrigation pumping stations." Moscow, 1960. 26 pp with charts; (Moscow Inst of Water Economy Engineers im V. R. Williams); 170 copies; price not given; (KL, 24-60, 132)

ISAYEV, A.P., inzh.

Flow of water into channels through discharge openings of pressure
reservoir-divider pumping stations. Izv. vys. ucheb. zav.; energ.
3 no.8:132-141 Ag '60. (MIRA 13:9)

1. Moskovskiy institut inzhenerov vodnogo khozyaystva imeni V.R.
Vil'yamsa. Predstavlena kafedroy nasosnykh stantsiy.
(Water-supply engineering)

ISAYEV, A.P., kand.tekhn.nauk

Sprinkler irrigation and technical economic indices of sprinklers.
Bul.tekh.-ekon.inform. no.9:66-69 '61. (MIRA 14:9)
(Sprinkler irrigation) (Sprinklers)

PAVLENKO, V.A., kand.sel'skokhozyaystvennykh nauk; ISAYEV, A.P.

Effect of irrigation on the economic effectiveness of the production of eugenol basil. Masl. - zhir. prom. 27 no.12:28-29 D '61. (MIRA 14:12)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut maslichnykh i efirovaslichnykh kul'tur.
(Kuban--Basil botany irrigation)
(Basil (botany) irrigation))

ISAYEV, A.P., kand.ekon.nauk

Increasing the profitableness of the production of essential oil
raw materials and of the manufacture of essential oils. Masl.-
zhir.prom. 28 no.9:25-26 S '62. (MIRA 15:9)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut maslichnykh i
efiromaslichnykh kul'tur.

(Essences and essential oils)

ISAYEV, A.P., kand.tekhn.nauk; OSENNIY, V.S.

Sprinkler units. Biul.tekh.-ekon.inform.Ges.nauch.-issl.inst.nauch.
i tekhn.inform. 17 no.1:78-81 '64. (MIRA 17:2)

BADAR'YAN, G.G.; TYUTIN, V.A.; CHEREMUSHKIN, S.D.; ZUZIK, D.T.;
KHODASEVICH, B.G.; FRAYER, S.V.; GUSAROV, Ye.I.; KAZANSKIY,
A.M.; KASSIROV, L.N.; KARAYEV, S.A.; ABRAMOV, V.A.;
VASIL'YEV, N.V.; BUGAYEV, N.F.; SAPIL'NIKOV, N.G.; KASTORIN,
A.A.; RUDNIKOV, V.N.; YAKOVLEV, V.A.; PEREMYKIN, V.I.;
ISAYEV, A.P.; KUZ'MICHEV, N.N.; IL'IN, S.A.; PRONIN, V.A.;
LUK'YANOV, A.D.; SHAKHOV, Ya.K.; IL'ICHEV, A.K., kand. sel'-
khoz. nauk; KOGAN, A.Ya.; TSYNKOV, M.Yu.; BABIY, L.T.;
GORBUNOV, I.I.; KOVALEV, A.M.; ROMANCHENKO, G.R.; BRODSKAYA,
M.L., red.; IVANOVA, A.N., red.; GUREVICH, M.M., tekhn. red.;
TRUKHINA, O.N., tekhn. red.

[Economics of agriculture] Ekonomika sotsialisticheskogo sel'-
skogo khoziaistva; kurs lektsii. Moskva, Sel'khozizdat, 1962.
710 p. (MIRA 15:10)

(Agriculture—Economic aspects)

ISAYEV, A. P.

Isayev, A. P. - "The mechanization of plaster mould production," Steklo i keramika, 1949, No 4, p. 14-15

SO: U-5240, 17, Dec. 53, (Letopis 'Zhurnal 'nykh Statey, No. 25, 1949).

24(3)

AUTHOR:

Isayev, A.P.,

Postgraduate Student

SOV/146-58-4-15/22

TITLE:

A Device for Investigating Friction in Balance Shaft Guides

PERIODICAL:

Izvestiya vysshikh uchebnykh zavedeniy, Priborostroyeniye, 1958, Nr 4, pp 93-98 (USSR)

ABSTRACT:

The oscillatory system balance - hair spring is the most important component of any portable watch mechanism. The damping of the free oscillations of the balance - hair spring system is caused by friction in the balance shaft guides, the air friction of the balance and the elastic hysteresis of the hair spring. The last two factors are of minor importance compared to the first one. The author describes a device and a method for determining the friction in balance shaft guides. The device permits the determination of friction moments during the rotation of the shaft (kinetic friction) and the friction when setting it in motion (static friction). In this paper, the author describes the utilization of the device only for determining the

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The friction moment is determined according to the following formula

$$M_T = I \frac{\omega_0 - \omega}{t}$$

where I - inertia moment of the disc with the shaft;
 ω_0 - initial angular velocity of the disc rotation;
 ω - angular velocity of the disc after the elapse of time t. The second method consists in measuring the number of rotations of the disc within previously established time intervals. The friction moment is determined according to the following formula

$$M_T = 2I \left(\frac{\omega_0}{t} - \frac{2\pi N}{t^2} \right)$$

where N - number of rotations of the disc within the time t. The author further investigated the difference between the oscillatory balance - hair spring system and the one used for measuring friction. He

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found that the replacement of an oscillatory motion by a rotating one does not have any noticeable influence on the character of the dependences of friction on different factors, for example, on the position of the balance shaft. The inertia disc has the same weight as the balance wheel. The initial velocity of the disc is equal to the maximum velocity of the balance when working in watches. The author investigated three methods for setting the inertia disc in motion. Using an air stream or the moving magnetic field of a synchronous motor were found to have certain disadvantages and therefore the magnetic field of a rotating electromagnet was used. The author then described the device in detail. Figure 1 shows the principal electrical circuits, while Figure 2 shows a photograph of the device. The functioning of the device according to the two aforementioned measuring methods is described. The second method has the advantage that subjective reading errors are eliminated. Measurements conducted on the experimental model proved its

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full suitability for investigating the friction moments in balance shaft guides. The device was designed actually for measuring the friction moment of the balance in the K-12 watch, but it may be converted for measuring the friction moments of the balances of other watches and of instruments with similar shaft guides. The suggested method of friction measurements is an indirect one and its accuracy depends on the errors made when measuring the magnitudes of the aforementioned formulae. Using the first method, the error does not exceed 4%. The device has a high sensitivity and may be used for determining very small friction moments. With this device investigations were performed concerning the influence of different factors on the friction moment in the balance shaft guides of the K-26 watch. The results of these investigations will be published. Finally, the author presents some data of the component parts of the device. A synchronous motor of the PPCh-4 device is used. The stroboscopic lamp is of type IST-10, but also a MN-7 neon

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tube may be used. Further, thyatron TGl-0.1/1.3, pulse counter SB-1M/100, relay RS-13 and rectifier VSA-5 were used. The power transformer LS-2 supplies the lamp MN-14. The photocurrent amplifier consists of tubes 6Zh4 and 6P6 and kenotron 5Ts4. There are 1 photograph, 1 diagram and 3 Soviet references.

ASSOCIATION: Leningradskiy institut tochnoy mekhaniki i optiki
(Leningrad Institute of Precision Mechanics and Optics)

SUBMITTED: May 12, 1958

Card 6/6

ISAYEV, A.P., assistant

Investigating friction in axle guides of watch balance wheels.
Izv.vys.ucheb.zav.; prib. no.3:87-97 '59. (MIRA 13:4)

1. Leningradskiy institut tochnoy mekhaniki i optiki. Rekom-
mendovana kafedroy priborov vremeni.
(Clocks and watches--Escapements)

S/146/60/003/005/011/017
B019/B054

AUTHOR: Isayev, A. P.

TITLE: Experimental Investigation of the Effect of Impact Overloads
on Watch Mechanisms

PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy. Priborostroyeniye,
1960, Vol. 3, No. 5, pp. 88 - 94

TEXT: The author describes his apparatus for testing units and mechanisms of watches under impact loads of up to 50,000 g. The testing apparatus consists of an accelerator to produce the required acceleration, a cathode follower in which the signal delivered by a piezoelectric sensor is amplified (equivalent to acceleration), and an oscilloscope. In the accelerator a hardened steel block hits, practically in free fall, a plate, thus producing the acceleration. The test piece is attached to the steel block, and is thus subjected to the required stress when hitting the plate. The measurement of acceleration with the piezoelectric sensor is discussed in detail. The shafts of watch balance wheels of standard aviation watches and much smaller K-26 (K-26) type watches were tested. By stepwise

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Experimental Investigation of the Effect of
Impact Overloads on Watch Mechanisms

S/146/60/003/005/011/017
B019/B054

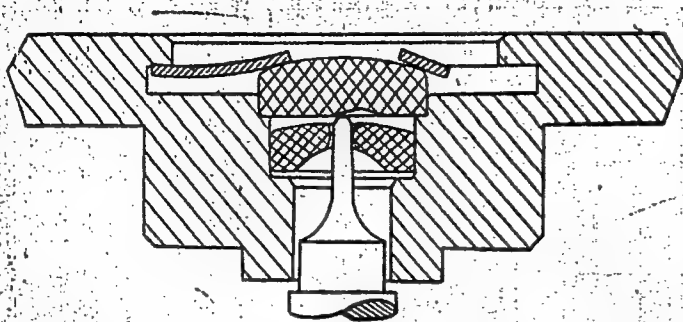
increasing the height of fall, the height was determined at which the shaft was destroyed. The load was applied perpendicular to the shaft axis. The experiment showed that elastic twists of up to 0.04 mm occurred if the cylindrical part of the shaft pivot was 0.4-0.5 mm long and 0.095 mm in diameter. Deformation occurred in the case of greater bendings. Fig.5 shows a shockproof shaft. In this design, a bending of the pivot pin is avoided by a shoulder of the shaft which, on elastic twisting of the pivot, is supported by a boring. The publication of this article was recommended by the Kafedra priborov vremeni (Chair of Chronometers). There are 5 figures and 1 Soviet reference.

ASSOCIATION: Leningradskiy institut tochnoy mekhaniki i optiki (Leningrad
Institute of Precision Mechanics and Optics)

SUBMITTED: May 6, 1960

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S/146/6Q/003/005/011/017
B019/B054



Фиг. 5. Конструкция против-
ударного устройства с удлин-
яемыми цапфами

Card 3/3

S/146/61/004/004/014/015
D235/D306

AUTHOR: Isayev, A.P.

TITLE: Experimental investigation of the effect of vibrations on friction in cylindrical guides of the balance axis

PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy. Priborostroyeniye, v. 4, no. 4, 1961, 101 - 108

TEXT: The experiments were carried out on balance wheels of "Pobeda" watches without the main spring. The following instruments were used: 1) Tone generator type 3Г-10 (3G-10), 2) Generator of mechanical vibrations ГМК-1 (GMK-1), 3) Cathode-ray oscillograph, 4) Rotating base, 5) Electrical second counters, 6) Frequency divider. The measurements of friction were carried out by the stroboscopic method. Five graphs give a summary of the results. The conclusions are: 1) Vibrational overload affects the frictional moment in the guides in different ways, and depends on the direction of vibrations, position of the axis in space, speed of rotation, frequency of vibration, magnitude of overload and radial clearance. 2) The

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Experimental investigation of ...

S/146/61/004/004/014/015
D235/D306

strongest effect of vibration on the moment of friction was observed with the axis in a vertical position, subjected to perpendicular vibration. In this case, with suitable choice of parameters one can obtain the same frictional moment for any position of the axis in the vertical plane. 3) The frictional moment increases substantially with increasing speed of rotation. 4) The magnitude of radial clearance in the guides has a considerable effect on the frictional moment when the axis is horizontal and the vibration vertical. Comparatively small changes in radial clearance (5-10 microns) cause great variations in the frictional moment for vibrational overloads over 1 g. The larger the clearance the smaller the frictional moment. 5) At vibrations with overloads greater than 1g the starting moment is zero. Z.M. Aksel'rod (Ref. 1: Priborostroyeniye 1959, no. 5) is mentioned for his contribution in this field. This article was recommended by the Kafedra priborov vremeni (Department of Time Instruments). There are 6 figures and 4 Soviet-bloc references.

ASSOCIATION: Leningradskiy institut tochnoy mekhaniki i optiki (Institute of Precision Mechanics and Optics, Leningrad)

SUBMITTED: February 16, 1961

Card 2/2

ISAYEV, A.P., kand.tekhn.nauk

The DU-25 sprinkling system with readily dismountable pipeline.
Trakt. i sel'khozamash. 32 no.5:37-39 My '62. (MIRA 15:5)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut sel'skokhozyaystven-
nogo mashinostroyeniya.

(Sprinkler irrigation)

ISAYEV, Aleksey Stepanovich, inzh.-mekhanik; LEVITUS, B.I., red.;
~~BEYSHENOV, A.,~~ tekhn. red.

[Mechanization of livestock farms in Kirghizistan] Mekhani-
zatsiia zhivotnovodcheskikh ferm v Kirgizii. Frunze, Kir-
gizskoe gos. izd-vo, 1959. 115 p. (MIRA 15:3)
(Kirghizistan--Stock and stockbreeding)

URT'YEV, Viktor Petrovich; LUR'YE, Vitol'd Samar'yevich; ISAYEV,
Al'bert Semenovich; ORLOV, Nikolay Il'ich; TSYPLUKHIN, Petr
Gavrilovich; SOKOLOV, A.N., red.; SHILLING, V.A., red.izd-va;
BELOGUROVA, I.A., tekhn. red.

[Vacuum arc furnace] Dugovaia vakuumnaia pech'. Leningrad, 1962.
25 p. (Leningradskii dom nauchno-tekhnicheskoi propagandy. Ob-
men peredovym opytom. Seriya: Liteinoe proizvodstvo, no.5)
(MIRA 16:2)

(Electric furnaces) (Vacuum metallurgy)

S/2536/64/000/061/0045/0055

ACCESSION NR: AT4044782

AUTHOR: Isayev, A. S.

TITLE: Determination of fatigue failure probability for random static loading

SOURCE: Moscow. Aviatsonnyy tekhnologicheskii institut. Trudy*, no. 61, 1964. Konstruktsionnaya prochnost' legkikh splavov i staloy (Structural strength of light alloys and alloy steels), 45-55

TOPIC TAGS: fatigue failure probability, random static loading, random loading cycle, linear fatigue accumulation, failure period, fatigue testing

ABSTRACT: A method based on the principles of linear fatigue accumulation is presented for calculations of fatigue damage resulting from random static loading. The author introduces a concept of random loading "cycle" and writes its distribution function as $f(\sigma_{\min}, \sigma_{\max})$. The appropriate fatigue function is now written as

$$N(\sigma_{\min}, \sigma_{\max}) = m_N(\sigma_{\min}, \sigma_{\max}) + \mu \sqrt{D_N(\sigma_{\min}, \sigma_{\max})} \quad (1)$$

Here the term with m is the mathematical expectation of the fatigue function, the term

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ACCESSION NR: AT4044782

with D is its dispersion, while μ is a random factor characterizing variation in sample properties. Fatigue resulting from random loading at a given time can be determined with probability P within a certain range only from the expression

$$D_i = tN_0 \int \int_{(\sigma_{min}, \sigma_{max})} \frac{f(\sigma_{min}, \sigma_{max}) d\sigma_{min} d\sigma_{max}}{m_N(\sigma_{min}, \sigma_{max}) + \mu \sqrt{D_N(\sigma_{min}, \sigma_{max})}} \quad (2)$$

Finally, the author illustrates the calculation of failure probability in time and writes it as

$$P\{t_i < D_i\} = \int_{\mu} f(D_i) dD_i \quad (3)$$

Orig. art. has: 14 equations and 5 figures.

ASSOCIATION: Aviatsionnyy tekhnologicheskii institut, Moscow (Institute of Aviation Technology)

SUBMITTED: 00

ENCL: 00

SUB CODE: MM

NO REF SOV: 002

OTHER: 000

2/2

Card

ACCESSION NR: AT4044783

8/2536/64/000/061/0056/0072

AUTHOR: Isayev, A. S.

TITLE: Experimental study of fatigue under random loading

SOURCE: Moscow. Aviatsionnyy tekhnologicheskii institut. Trudy*, no. 61, 1964.
Konstruktsionnaya prochnost' legkikh splavov i staley (Structural strength of light alloys
and alloy steels), 56-72

TOPIC TAGS: fatigue testing, random static loading, random load fatigue tester, fatigue
tester design, dispersion effect, fatigue crack development, steel 30KhGSA

ABSTRACT: Samples of steel 30KhGSA (tensile strength 110 kg/mm^2) were fatigue tested
on a four-stage assembly allowing laboratory simulation of random static loading character-
ized by ergodicity and with various spectral densities, dispersions and mathematical
expectations. Signals (0-30 cycles/sec.) from harmonic generators were multiplied by
some function $\lambda(t)$, varying periodically from 0 to 1, in functional potentiometers used as
modulators, then amplified (amplification factor regulated from 0.1 to 10), summed and
amplified again, then fed as random static signals to a second stage amplifier, branched
to two amplifiers (amplification factor 1.0) and fed into an electromechanical converter
(stage three). The latter consisted of a fixed coil producing a strong constant magnetic

ACCESSION NR: AT4044783

field (DC current) and a mobile coil attached to a platform suspended from laminated springs. The signal created a magnetic field in the mobile coil and forces resulting from interaction of both fields displaced the platform, thus deforming the sample mounted on it. Platform displacement was recorded by a loop oscillograph and was also picked up by an electron oscillograph. The test procedure is given in detail. The study was limited to the effects of mathematical expectation and dispersion on period to failure at a constant normalized spectral density. Equivalence factor values were derived experimentally and relate the mean square deviation of random loading to the amplitude of equivalent harmonic load. Development of fatigue cracks differed substantially for random and harmonic loading. Variations in the mean square deviation affected period to failure much more strongly than a change in mathematical expectation. The unit can be used to verify the correctness of any theory of cumulative damage under random loading. Orig. art. has: 22 figures and 6 formulas.

ASSOCIATION: Aviatsionnyy tekhnologicheskii institut, Moscow (Institute of Aviation Technology)

SUBMITTED: 00

SUB CODE: MM

NO REF SOV: 004

ENCL: 00

OTHER: 004

U-3503-5 EAG(j)/ENT(m)/EPF(c)/ENP(j)/T/ENA(n)/ENA(1) Pc-4/Pr-4/Feb 191(c)
 ACCESSION NR: AP5003P91 RM 3/0061/64/000/013/SC06/5096

U-3503-5 EAG(j)/ENT(m)/EPF(c)/ENP(j)/T/ENA(n)/ENA(1) Pc-4/Pr-4/Feb 191(c)

AUTHOR: Isayev, A. S.; Medvedev, M. A.; Frokhov, V. I.

TITLE: Pressing of Scintillating Plastics

CITED SOURCE: Sb. Stsintillyatory i stsintillyats. materialy. Khar'kov, Khar'kovsk. un-t, 1963, 25-28

TOPIC TAGS: scintillator, plastic, scintillation counter, gamma radiation

TRANSLATION: Scintillating filaments 0.3-5 mm in diameter and 1000-1200 mm long, films, discs and rings of the desired configuration were pressed from scintillating plastics produce: from polystyrene and containing 2% terphenyl and 0.02% RCMOR. The filaments and films were pressed from a plastic rod which was placed in the press and heated to 140°C. The pressure of 1-1.5 kg/cm² was maintained by periodic pumping down. At 140°C, pumping was stopped and 4-5 kg/cm² pressure was applied. Filaments follow from the opening in the lower cover pass into a vessel with water. Discs and rings were pressed from plastics of random shape by slow increase of the temperature to 100°C, the pressure inside the press being 2-3

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0 33505-63

ACCESSION NR: AR5003893

under 2-3 mm of Hg pressure in the press-form, heating was started at a rate of 50° per hour. After 2 hours holding at 165°C the temperature was lowered to 145°C, 4-5 kg./cm² pressure was applied and the entire mass was slowly cooled. The pressure was removed at 60-80°C and the specimen was withdrawn. Eight hours are required to produce scintillators 20 mm in diameter and 50 mm thick. The pulse amplitude, that the scintillator is were determined from 4 samples 30 x 30 mm² by irradiation with alpha rays from a ²¹⁰Pb source using an EBU-29 photomultiplier. It was found that the pulse amplitude is uniformly distributed throughout the scintillator. The pulse amplitude and the thermal stability of scintillators produced by pressing in 175 atm and by alkyl benzenes polymerization of styrene are similar (See ref. 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 111, 112, 113, 114, 115, 116, 117, 118, 119, 120, 121, 122, 123, 124, 125, 126, 127, 128, 129, 130, 131, 132, 133, 134, 135, 136, 137, 138, 139, 140, 141, 142, 143, 144, 145, 146, 147, 148, 149, 150, 151, 152, 153, 154, 155, 156, 157, 158, 159, 160, 161, 162, 163, 164, 165, 166, 167, 168, 169, 170, 171, 172, 173, 174, 175, 176, 177, 178, 179, 180, 181, 182, 183, 184, 185, 186, 187, 188, 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SUB CODE: 00, 00

ENCL: 00

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SOV/112-59-4-7415

Translation from: Referativnyy zhurnal. Elektrotehnika, 1959, Nr 4, p 138 (USSR)

AUTHOR: Andreyeshchev, Ye. A., Isayev, B. I., and Mel'nikov, I. F.

TITLE: Spark Counter for Checking Contamination of Surfaces With Alpha-Active Substances

PERIODICAL: V sb.: Issled. v obl. dozimetrii ioniziruyushchikh izlucheny. M., AS USSR, 1957, pp 162-165

ABSTRACT: A portable instrument for monitoring alpha contamination of surfaces is described. A multiwire spark counter with a large-area (150 cm²) cathode is used. A high voltage (about 4,500 v) is applied to an anode that comprises 25 filaments (tungsten wire of 0.1-mm diameter) which are spanned in parallel with the cathode plane 1.5 mm from the cathode surface. The counting is made either by a neon lamp or by headphones. The instrument efficiency is about 0.5-1%. Its advantages are: (1) absence of background and (2) alpha-particle counting not interfered with by any beta- or gamma-background.

N.G.Z.

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<p>ASS-55A METALLURGICAL LITERATURE CLASSIFICATION</p>			
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<p>Measurement of Intensity of X-Ray Radiation by a Proportional Ionometer. V. Vekker and B. Isakov. (<i>Doklady Akademii Nauk S.S.S.R.</i>, 1936, 3, (8), 360-370 (in Russian); and <i>Compt. rend. Acad. Sci. U.R.S.S.</i>, 1936, 3, (8), 360-370 (in English)).—It is proposed to use a high-pressure, non-independent discharge for measuring the intensity of X-rays. The apparatus, which consists of an aluminum cylinder filled with a mixture of krypton 85 and xenon 135, at 600 mm. pressure, enables, owing to its high sensitivity, all measurements of ionization currents to be made with the usual mirror galvanometer of 2-10⁻⁸ amp. sensitivity.—N. A.</p>																																																			
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<div style="position: relative;"> B2 A-1 <div style="border: 1px solid black; padding: 10px; margin: 20px auto; width: 80%;"> <p>Heavy particles in cosmic radiation at a height of 4000 meters above sea-level. V. VARNAN and B. KARY (Zhurav. Acad. Sci. U.R.S.S., 1967, 27, 120-124). A system of proportional counters has been devised to measure the no. of heavy particles produced by cosmic radiation and the ionization which they produce. The no. of heavy particles absorbed by 6-75 or 1-5 mm. of Fe is not increased by plating Al over the counters, so Al does not emit appreciable nos. of heavy particles.</p> <p style="text-align: right;">J. W. S.</p> </div> </div>									
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